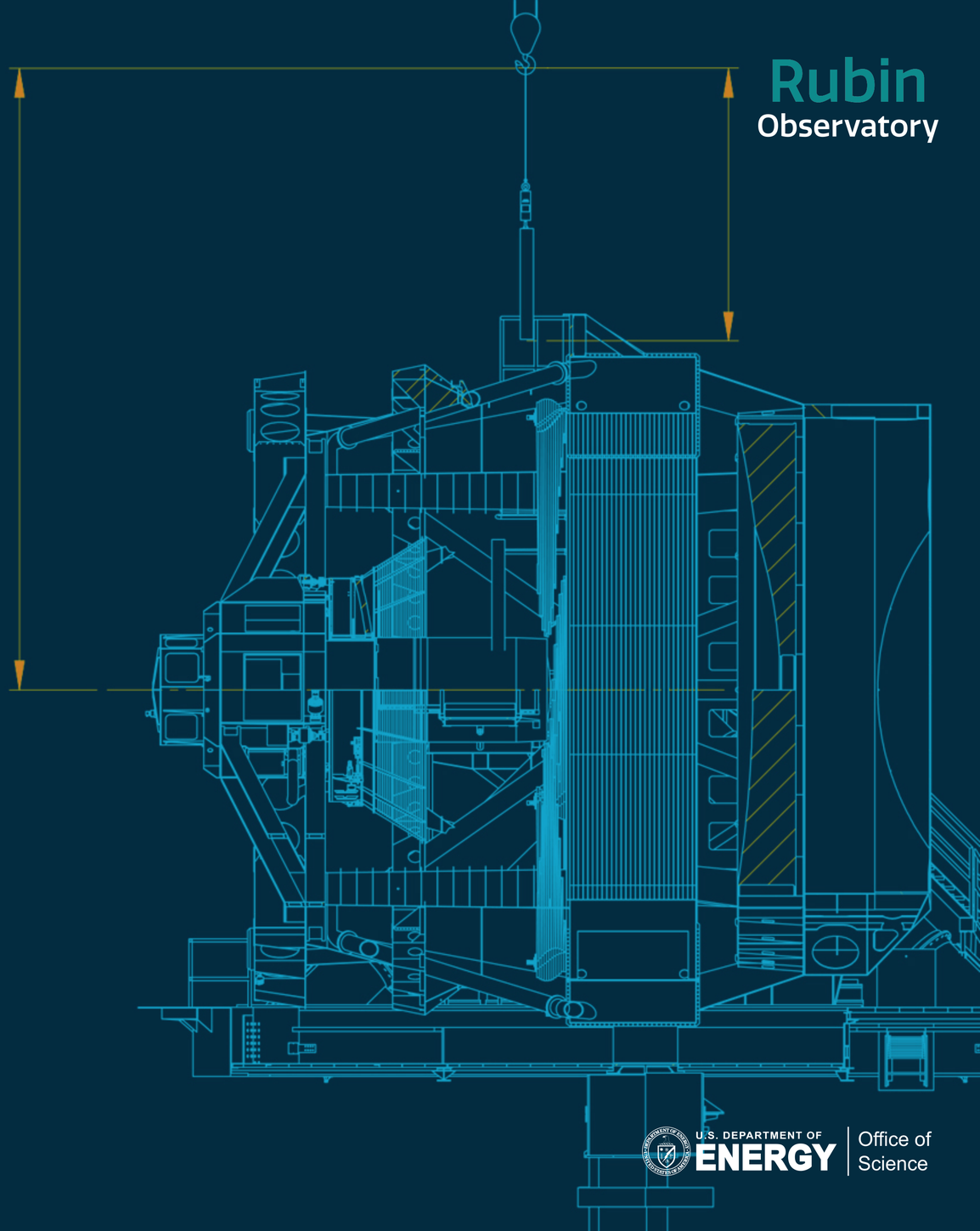
Rubin Observatory

Architecture F20B Progress and S21A Plans

DMLT F2F | Virtual | September 17, 2020

NSF AURA U.S. DEPARTMENT OF ENERGY | Office of Science SLAC CHARLES AND LISA SIMONYI FUND FOR ARTS AND SCIENCES LSST CORPORATION

F20B Progress



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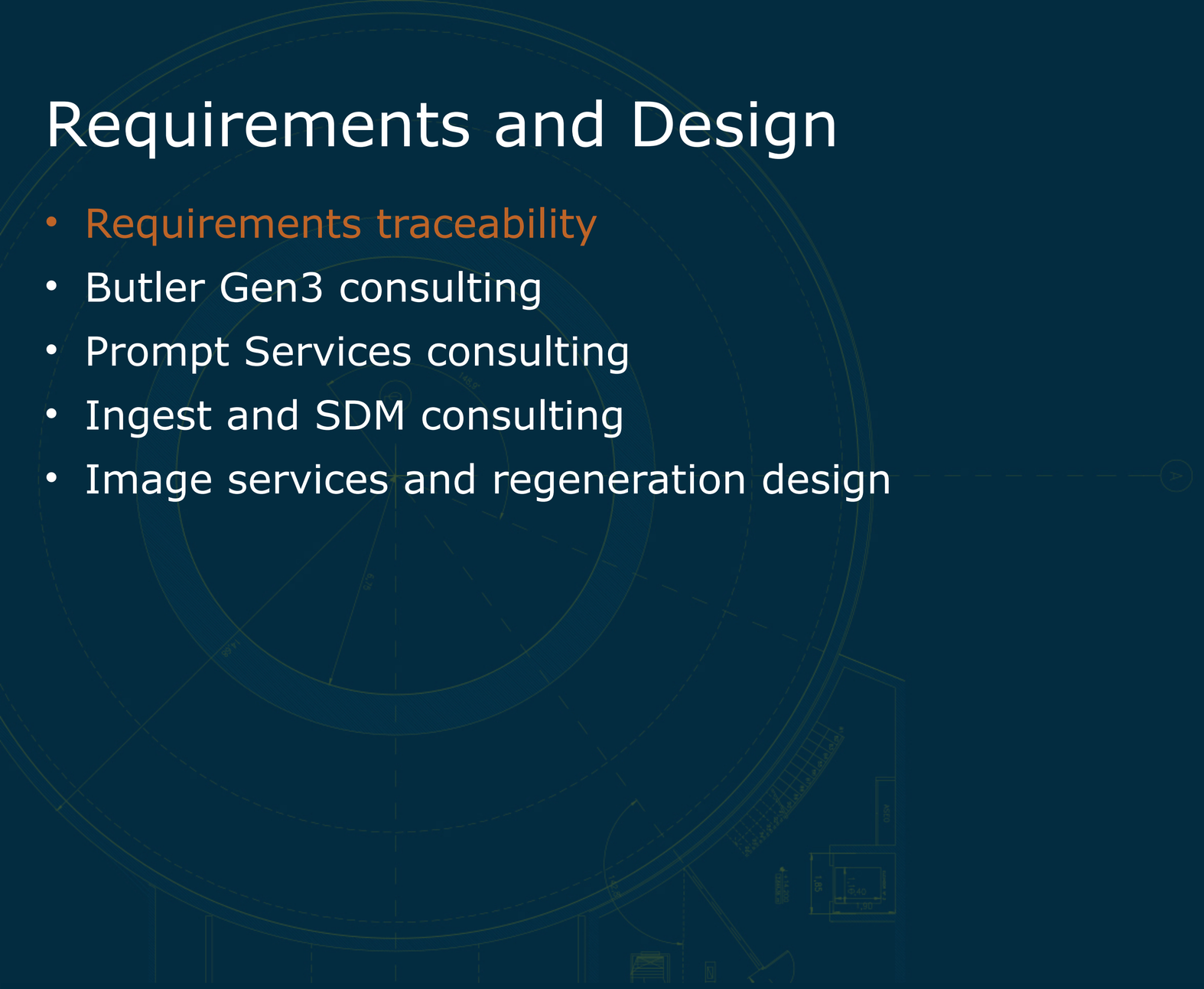
Requirements and Design

- Requirements traceability
- Butler Gen3 consulting
- Prompt Services consulting
- Ingest and SDM consulting
- Image services and regeneration design



Oversight and Release

- 21.0.0 release prep
- Release re-engineering
- Got rid of pex_policy!
- DMTN-104 and product tree evangelism
- Ongoing test plan and verification work

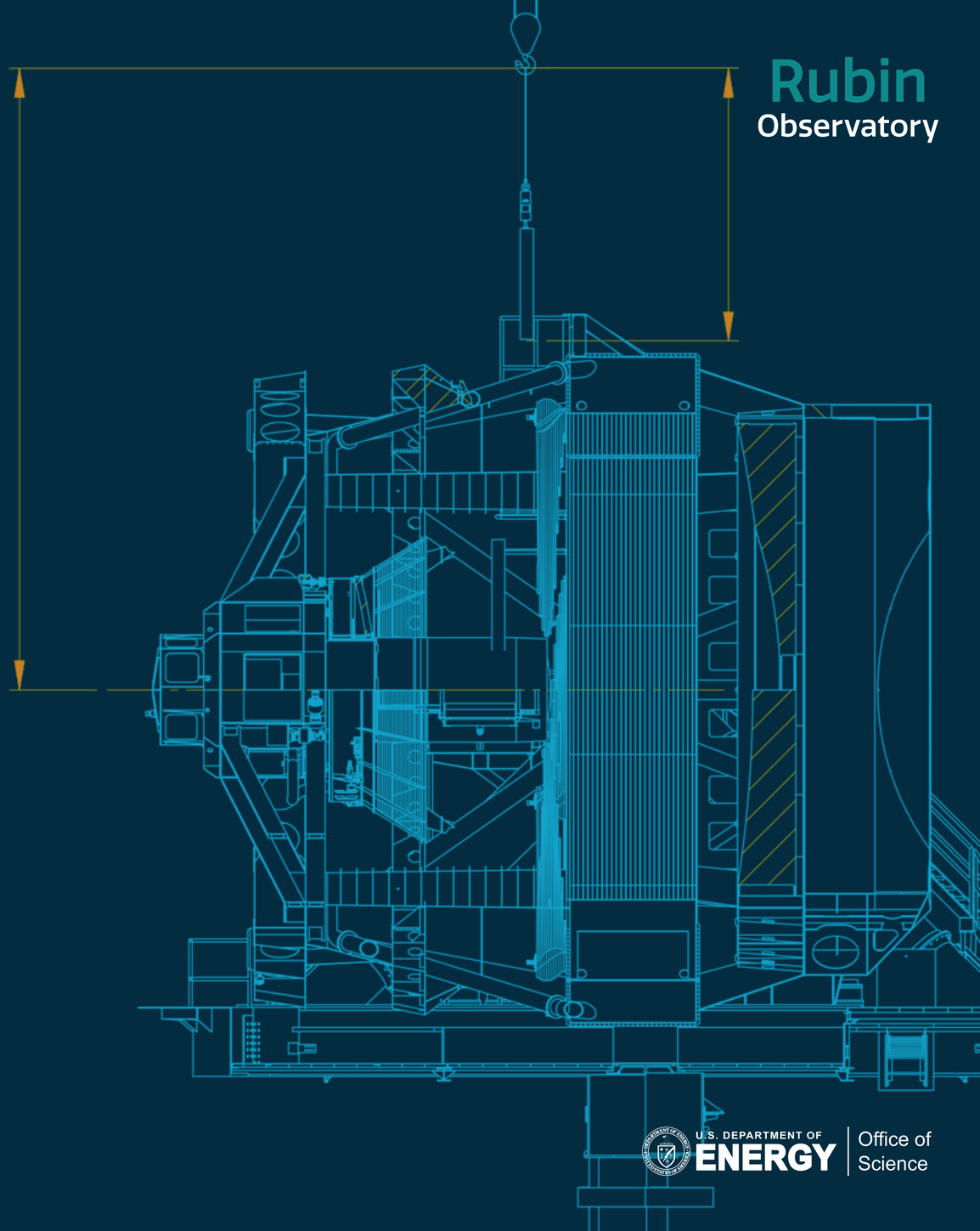
Investigation and Coding

- Gen3 Middleware management and coding
- Build engineering:
  - Jenkins is more reliable
  - ci_hsc running on macOS
  - Sped up by removing redundant conda deployment
  - Self-serve for some not-so-rare problems in lieu of true fixes
  - sconsUtils fix for one longstanding race condition
  - Still one known problem causing retries
- Conda packaging:
  - PRs to various packages for Python 3.8 and pybind11
  - Simplifications waiting on this
- Travis to GitHub Actions transition
- OCPS

Pre-Ops

- Sizing model
- Google PoC completion
- IDF transition
- USDF consulting
- UKDF consulting

S21A Plans



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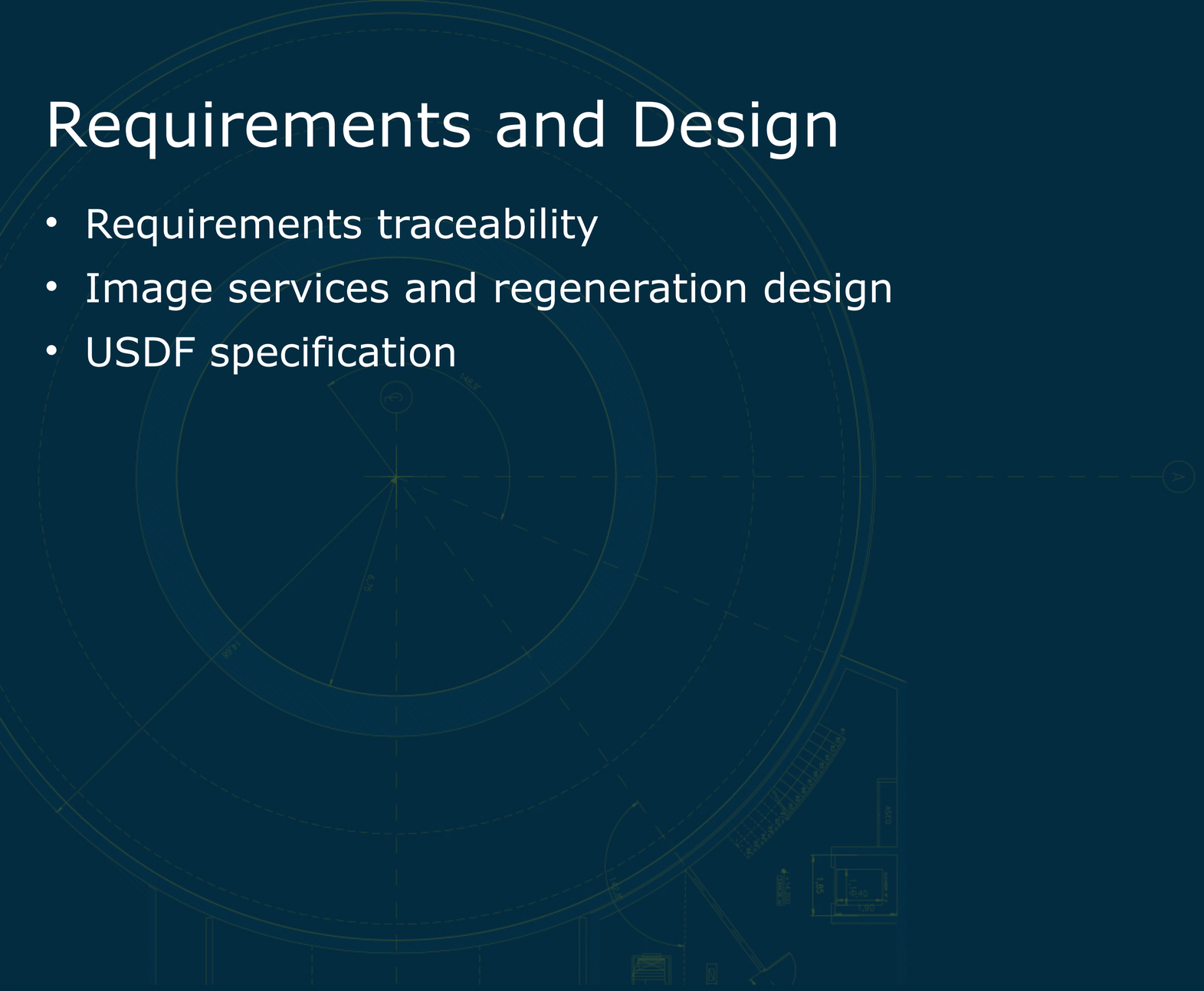
Requirements and Design

- Requirements traceability
- Image services and regeneration design
- USDF specification

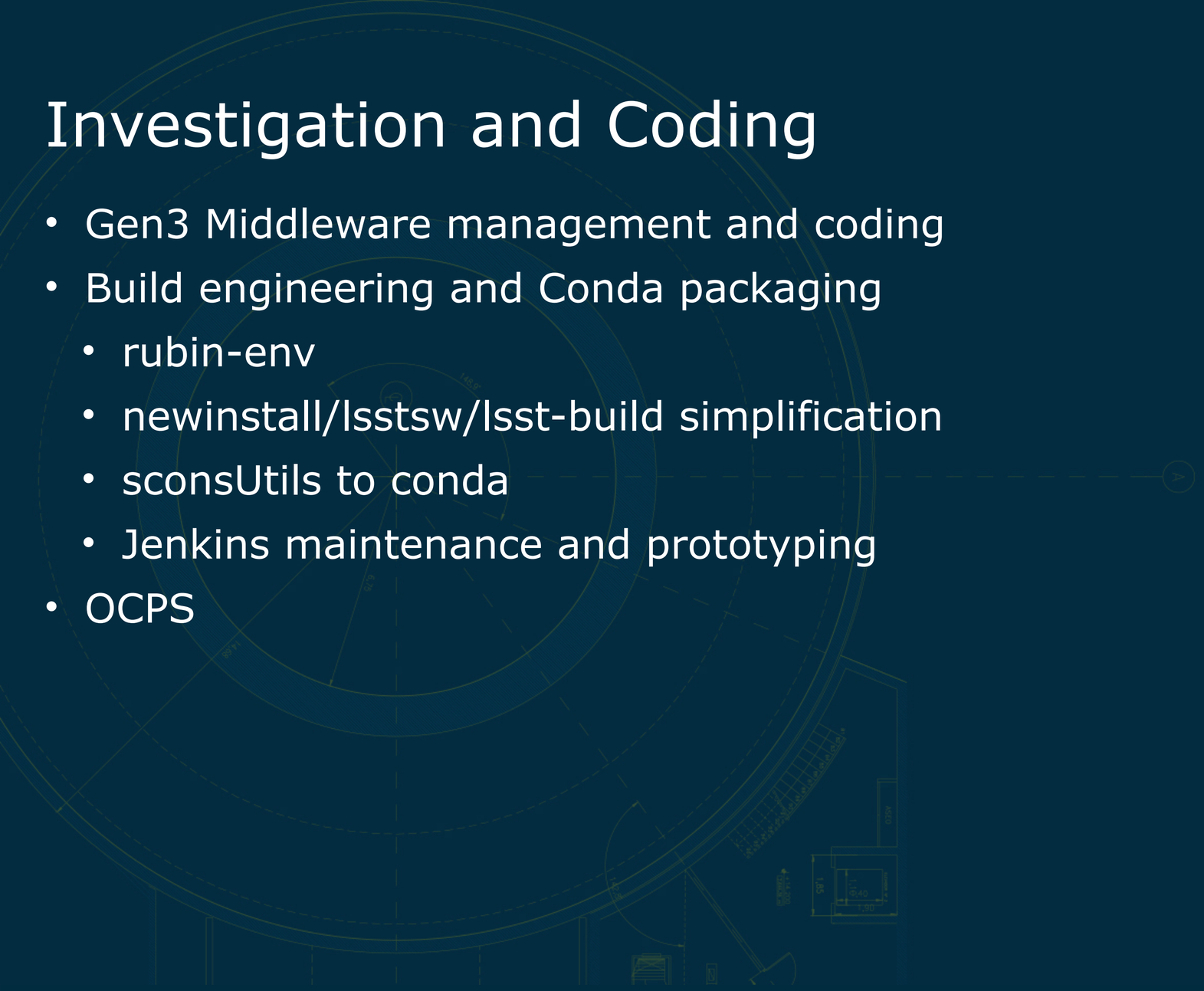


Oversight and Release

- 21.0.0 release
- Release re-engineering
- DMTN-104 and product tree evangelism
- Ongoing test plan and verification work

Investigation and Coding

- Gen3 Middleware management and coding
- Build engineering and Conda packaging
  - rubin-env
  - newinstall/lsstsw/lsst-build simplification
  - sconsUtils to conda
  - Jenkins maintenance and prototyping
- OCPS



Pre-Ops

- Long-Haul Network data transfer debugging
- IDF transition
- USDF consulting